

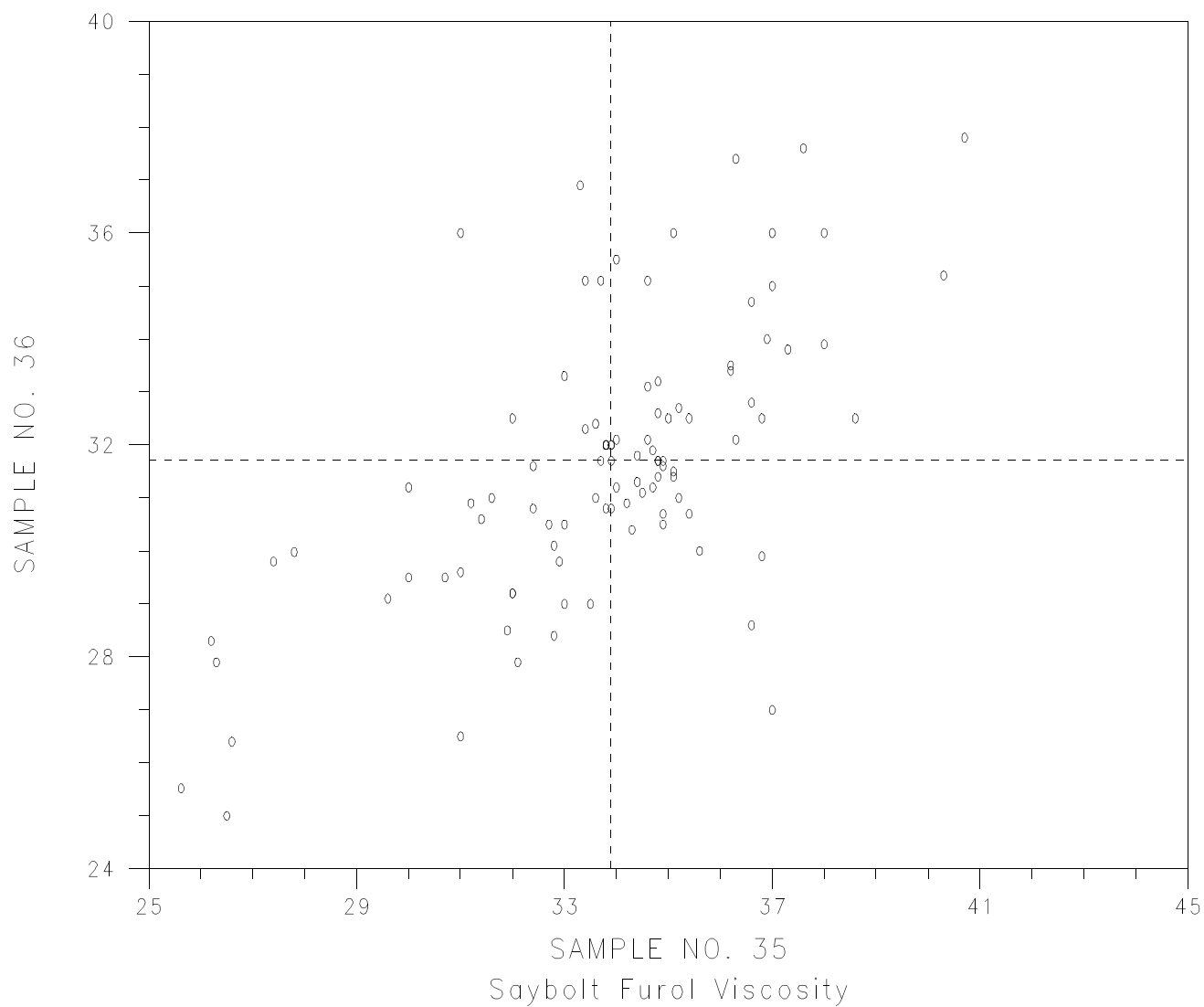
**AMRL Bituminous Proficiency Sample Program
Final Report - September 2001**

EMULSIFIED ASPHALT PROFICIENCY SAMPLES		SAMPLE NUMBER 35			SAMPLE NUMBER 36		
TEST RESULT	NO. LABS	AVG.	STAND. DEV.	COEFF. VAR.	AVG.	STAND. DEV.	COEFF. VAR.
AASHTO T59/ASTM D244: Saybolt Furol Viscosity at 25°C	99	33.49	3.8	11.3	31.36	3.4	10.9
	96	33.89	3.1	9.02	31.71	2.7	8.63
AASHTO T59/ASTM D244: Residue by Distillation Percent Residue (nearest 0.1%)	103	66.15	0.61	0.929	65.63	0.59	0.898
	99	66.20	0.51	0.772	65.68	0.53	0.801
Volume of Oil Distillate (nearest 0.5 mL)	96	0.86	3.4	392	0.83	3.4	411
	91	0.44	0.38	86.9	0.41	0.36	86.0
Penetration of Residue	101	112.40	14.1	12.6	113.70	14.4	12.7
	98	111.23	8.4	7.58	112.69	8.7	7.76
Solubility of Residue Percent of Material Soluble (nearest 0.01%)	69	99.682	0.16	0.159	99.691	0.16	0.160
	67	99.693	0.14	0.143	99.697	0.15	0.151
AASHTO T59/ASTM D244: Residue by Evaporation Percent Residue (nearest 0.1%)	75	66.39	0.97	1.47	65.81	0.81	1.23
	72	66.48	0.45	0.682	65.84	0.47	0.719
Penetration of Residue	73	89.8	11.5	12.8	91.0	11.5	12.7
	72	89.3	10.7	12.0	90.6	10.9	12.1
Solubility of Residue Percent of Material Soluble (nearest 0.01%)	55	99.651	0.22	0.221	99.693	0.21	0.208
	53	99.678	0.17	0.173	99.720	0.16	0.157

NOTE: The rows in blue show results after removing outlying data. Ratings are based on the results shown in blue (Any outlying data have been removed).

AMRL PROFICIENCY SAMPLE PROGRAM

EMULSIFIED ASPHALT SAMPLE NOS. 33 & 34



Test No. 1

Saybolt Furol Viscosity

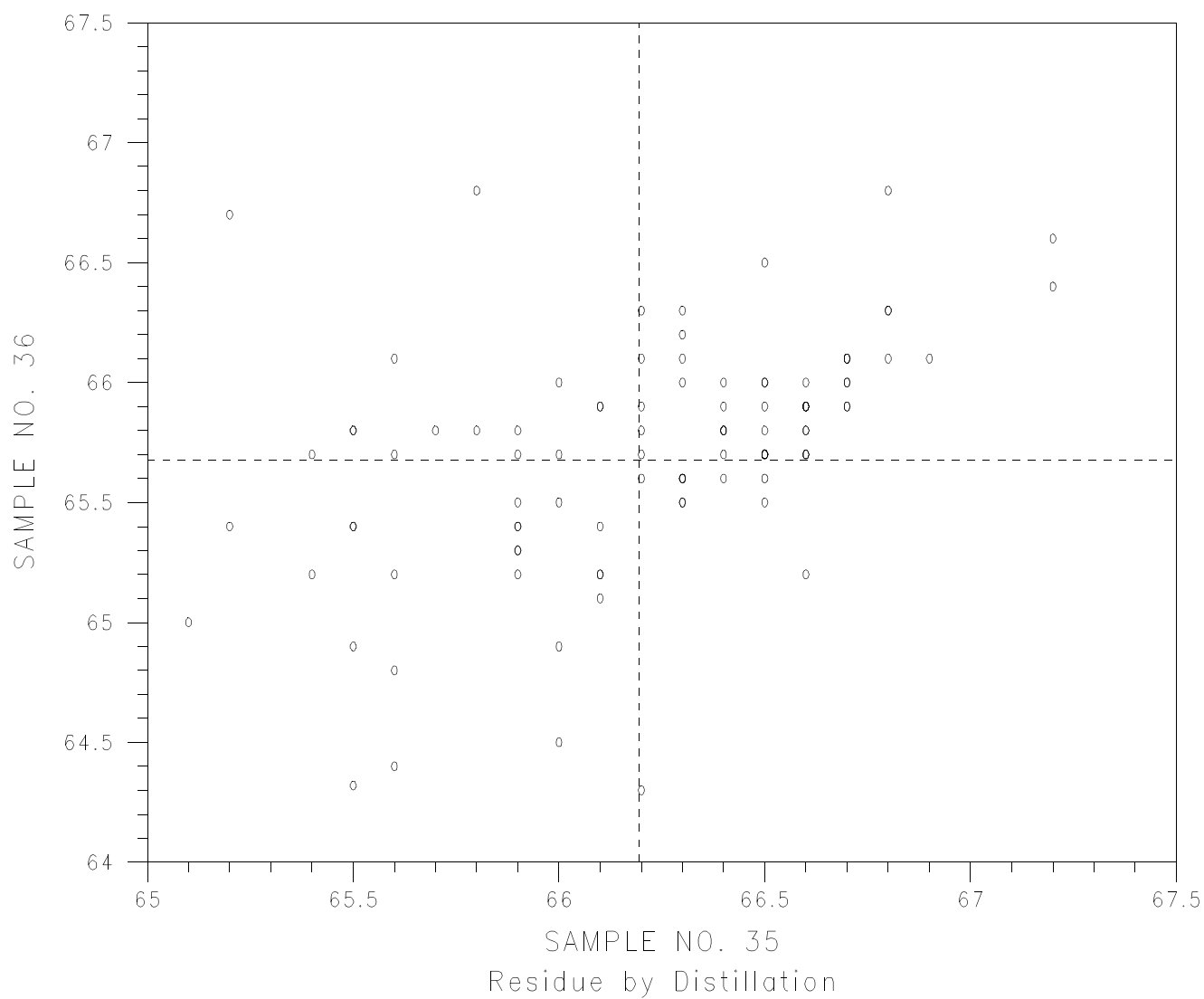
95 Points

Labs Eliminated: 188 2043 3382

Labs off the Diagram: 1

AMRL PROFICIENCY SAMPLE PROGRAM

EMULSIFIED ASPHALT SAMPLE NOS. 33 & 34



Test No. 2

Residue by Distillation

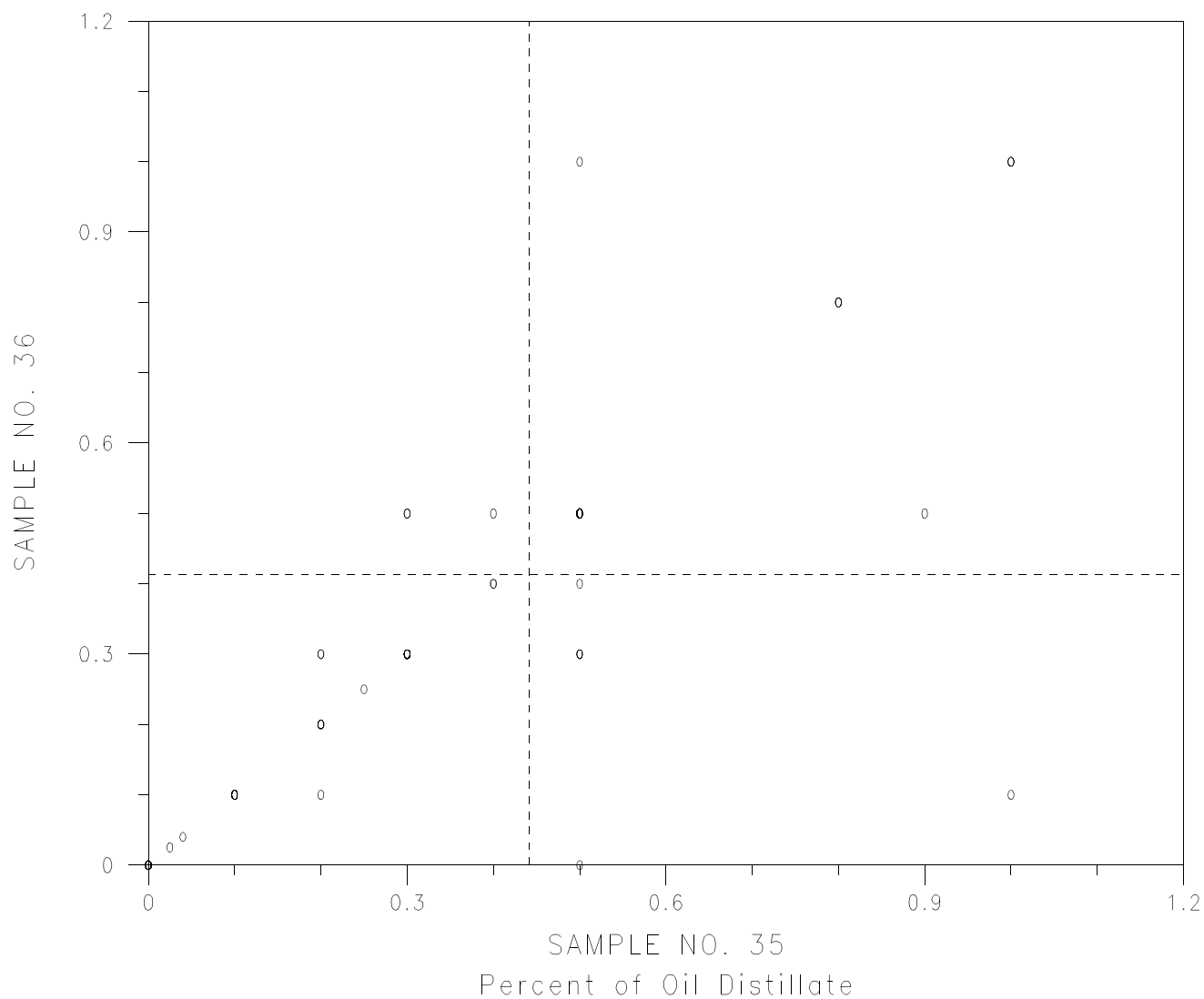
96 Points

Labs Eliminated: 34 52 3721 3726

Labs off the Diagram: 11 24 876

AMRL PROFICIENCY SAMPLE PROGRAM

EMULSIFIED ASPHALT SAMPLE NOS. 33 & 34



Test No. 3

Percent of Oil Distillate

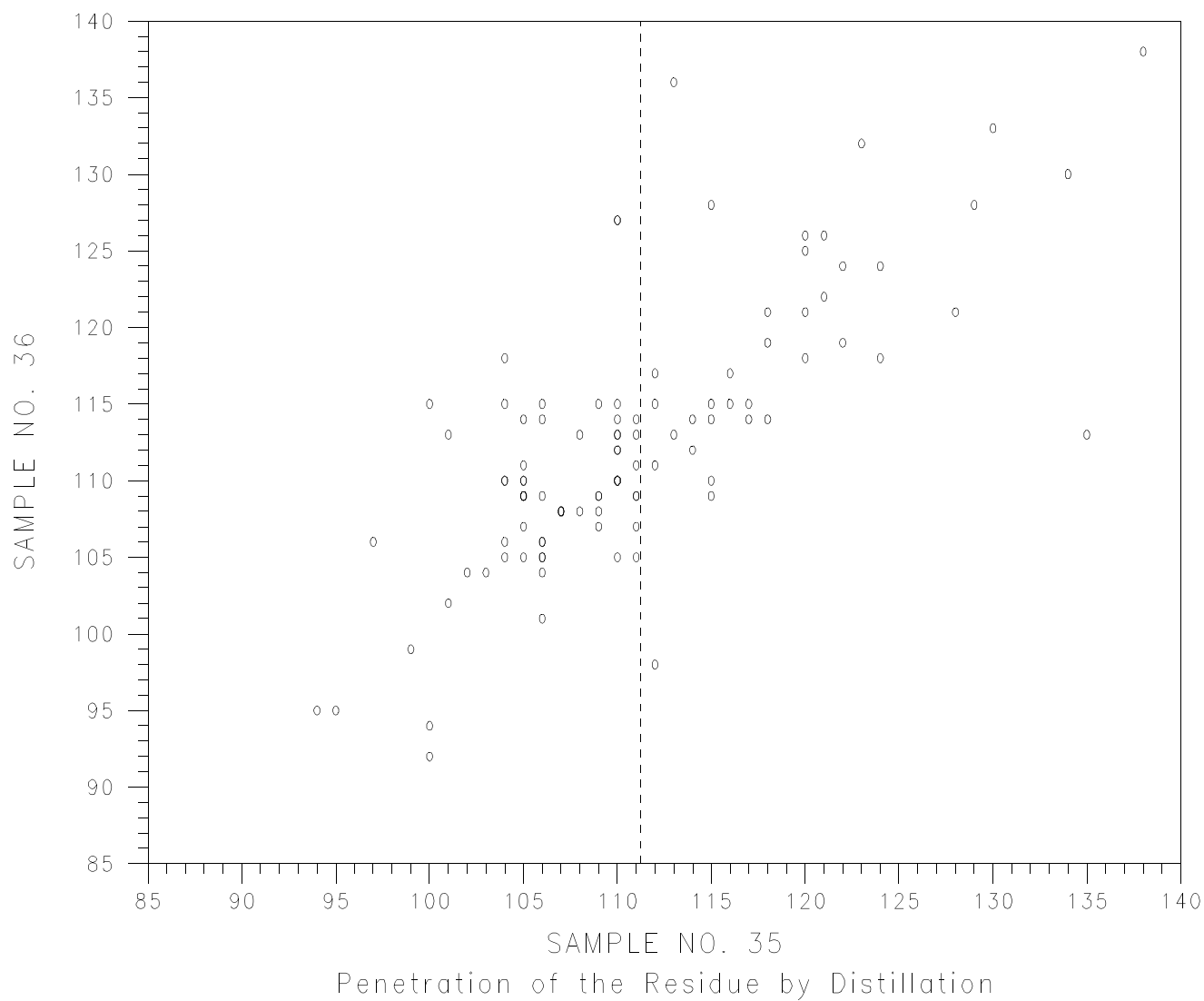
85 Points

Labs Eliminated: 11 41 1061 1187 2043

Labs off the Diagram: 2 25 27 34 1172 3018

AMRL PROFICIENCY SAMPLE PROGRAM

EMULSIFIED ASPHALT SAMPLE NOS. 33 & 34

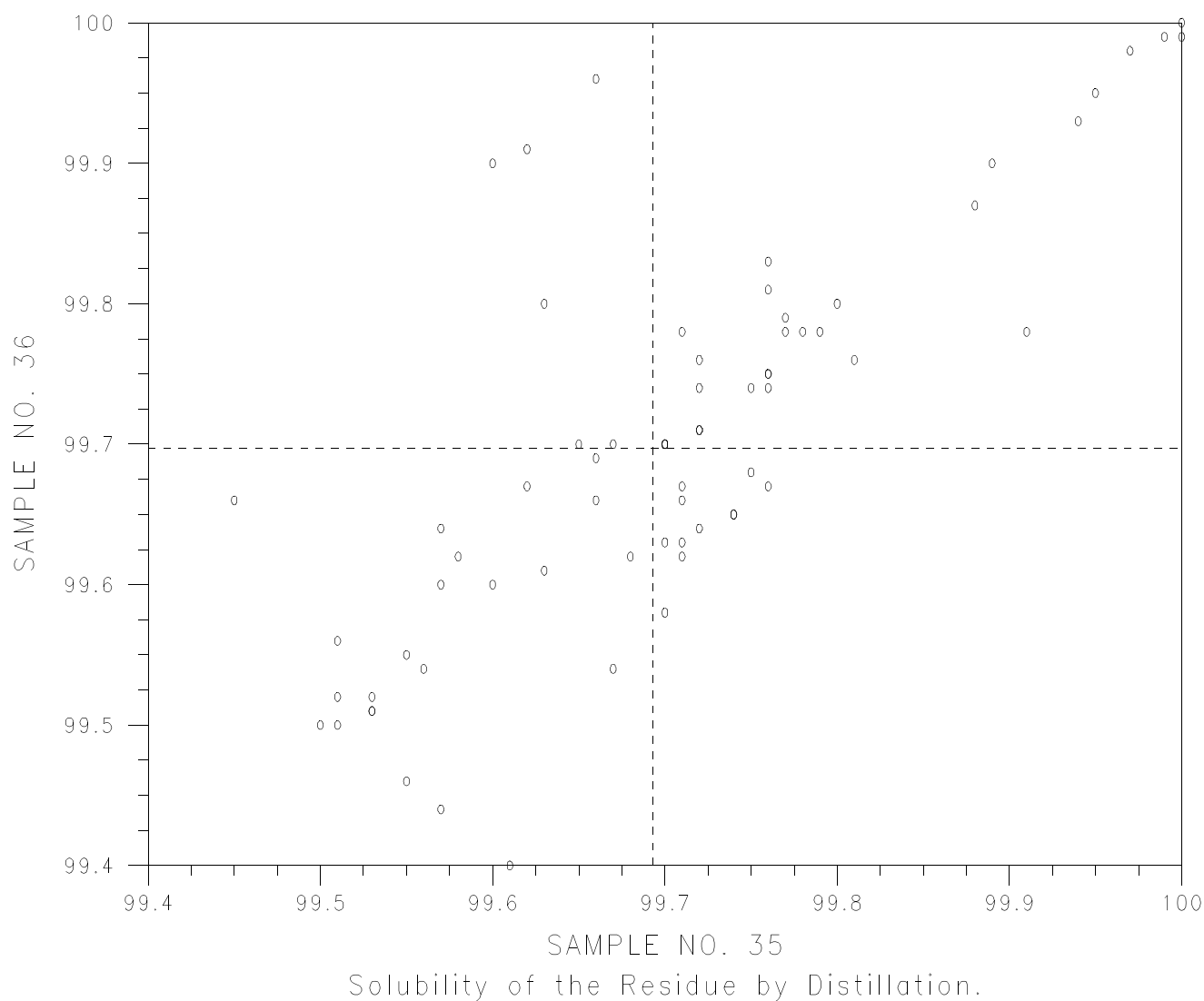


Test No. 4 Penetration of the Residue by Distillation 98 Points

Labs Eliminated: 455 876 3726

AMRL PROFICIENCY SAMPLE PROGRAM

EMULSIFIED ASPHALT SAMPLE NOS. 33 & 34



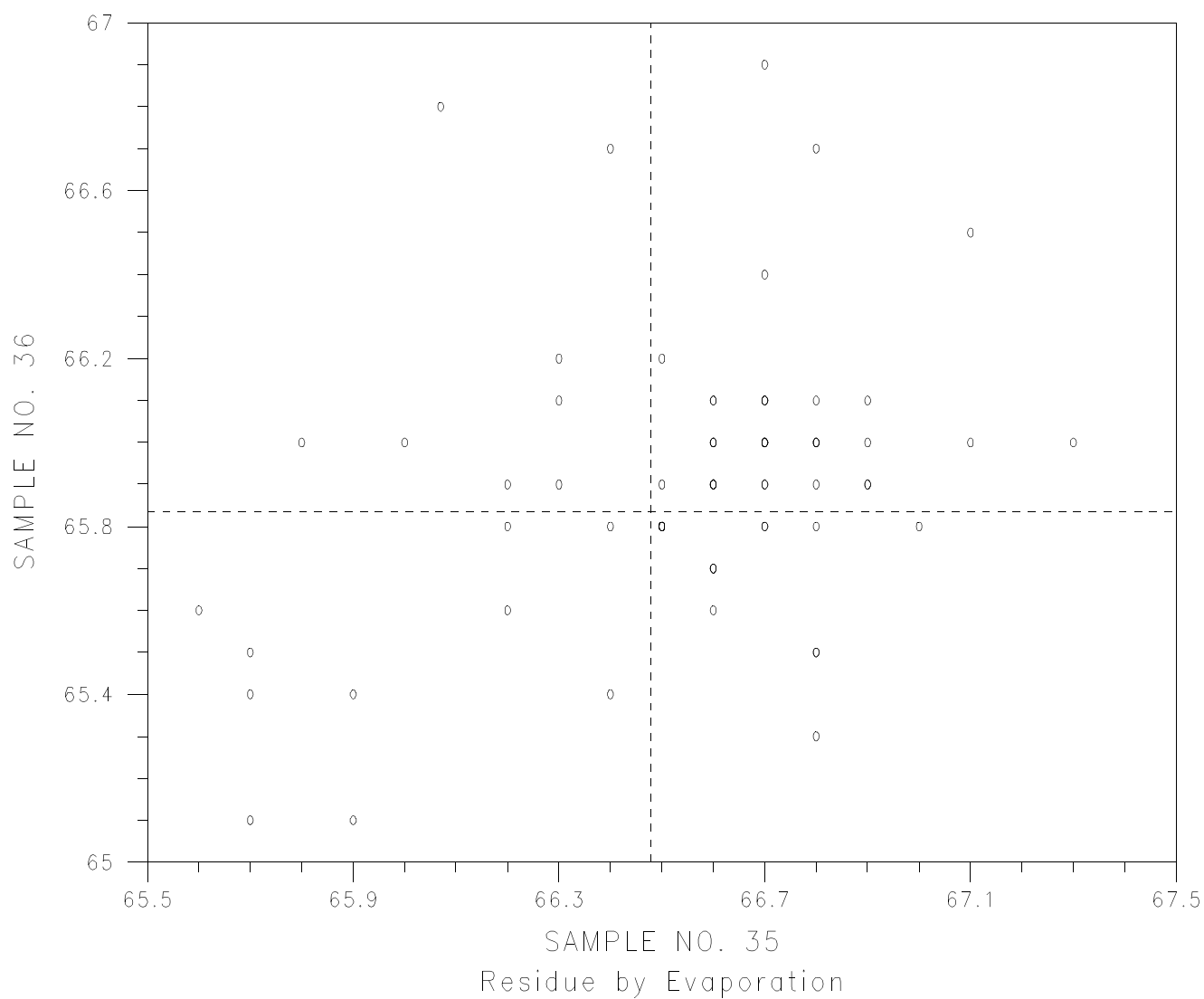
Test No. 5 Solubility of the Residue by Distillation 65 Points

Labs Eliminated: 565 1061

Labs off the Diagram: 25 31

AMRL PROFICIENCY SAMPLE PROGRAM

EMULSIFIED ASPHALT SAMPLE NOS. 33 & 34

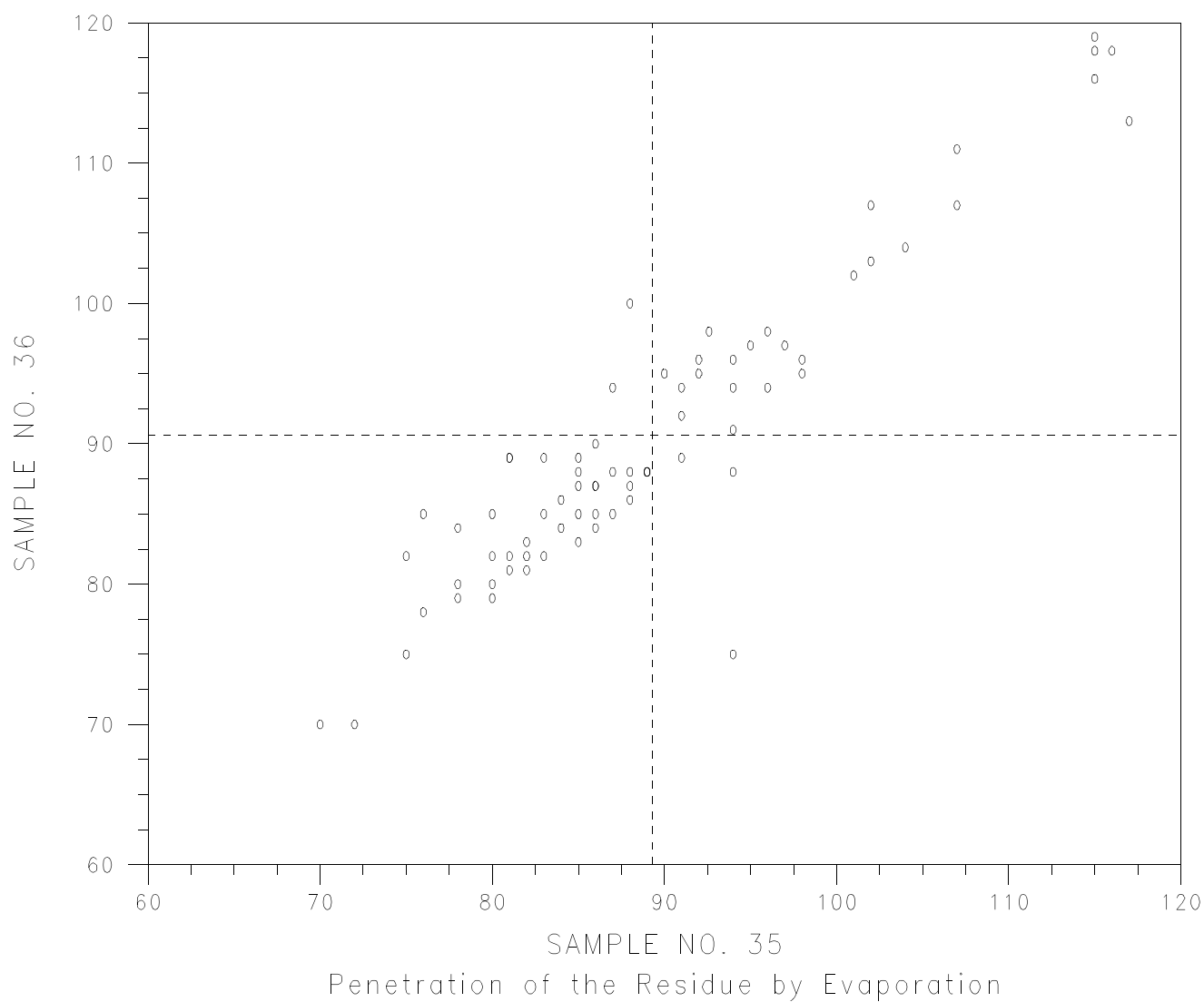
**Test No. 6****Residue by Evaporation****67 Points**

Labs Eliminated: 1172 3158 3726

Labs off the Diagram: 267 1247 1424 2063 3468

AMRL PROFICIENCY SAMPLE PROGRAM

EMULSIFIED ASPHALT SAMPLE NOS. 33 & 34

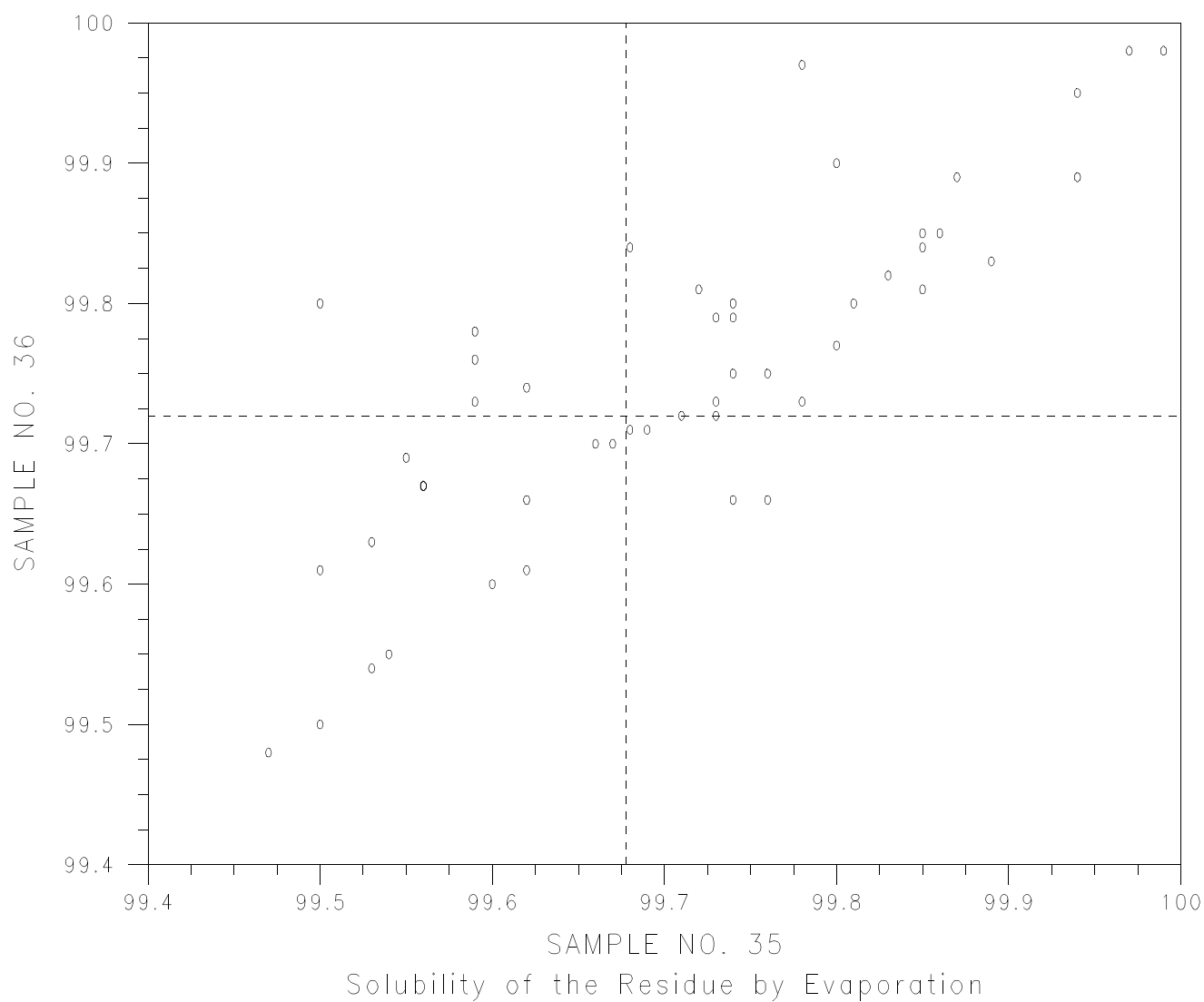


Test No. 7 Penetration of the Residue by Evaporation 72 Points

Labs Eliminated: 35

AMRL PROFICIENCY SAMPLE PROGRAM

EMULSIFIED ASPHALT SAMPLE NOS. 33 & 34



Test No. 8 Solubility of the Residue by Evaporation 48 Points

Labs Eliminated: 47 2043

Labs off the Diagram: 7 31 45 1437 3148